

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
Certificate Number. 951001163

Catalogue Number	043848
Lot Number	S15L704
Description	1-Propanol, ACS, 99.5+%
CAS Number	71-23-8
Quality Test/Release Date	18/Jun/2025
Suggested retest date	18/Jun/2030
Country of Origin	United States
Declaration of Origin	Synthetic

Result Name	Units	Specifications	Test Value
Color (APHA)	APHA	≤10	5
Assay (GC)	%	≥ 99.5% ( corrected for water)	99.94
Appearance (Color)		Colorless	Colorless
Free acid (titration)	meq/g	≤0.0004meq/g	0.0002
Form		Liquid	Liquid
Impurity content	%	≤0.01% Ethanol (CH <sub>3</sub> CH <sub>2</sub> OH)	<0.01
Impurity content	%	≤0.01% Methanol (CH <sub>3</sub> OH)	<0.01
Impurity content	%	≤0.03% Carbonyl compounds (as C <sub>2</sub> H <sub>5</sub> CHO)	<0.03
Impurity content	%	≤0.05% Isopropyl alcohol(CH <sub>3</sub> CHOCH <sub>3</sub> )	<0.01
Water Content (Karl Fischer Titration)	%	≤0.2%	0.05
Residue on Evaporation	%	≤0.001%	0.00008
Solution Test		in water P.T.	Passes test



John Astarita  
Director, Quality

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.